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Applicant thanks the Examiner for the remarks and analysis contained in the most recent Office Action. Several of the claims have been amended to improve the readability of the claims. The amendments to the claims have no connection with any rejection made against any of the claims. Applicant appreciates the indication of allowed claims. For the reasons mentioned below, Applicant respectfully submits that all claims are allowable. Applicant respectfully requests reconsideration of this application.

Applicant does not understand the Examiner's suggested renumbering of the claims. Applicant is following the MPEP guidelines in numbering claims as presented in this application. Applicant has checked the dependencies of the pending claims and believes them to be correct. If the Examiner is aware of a particular claim or several claims that would be better understood with renumbering, Applicant's representative respectfully requests that the Examiner call Applicant's representative to discuss such claims.

Applicant respectfully submits that claim 16 should not be reworded. The arrangement in claim 16 contemplates an arrangement where the composite signal is examined to determine an effect if the threshold-correcting signal were added and then selectively adding it depending on the result of that examination. Applicant respectfully submits that the claim is understandable as presented and that it is consistent with the specification, for example, on page 12, lines 15-28.

Applicant respectfully traverses the rejection under 35 U.S.C. §102(e) based upon the *Wheatley, III, et al.* reference. There is no anticipation. The *Wheatley, III, et al.* reference does not include examining a composite signal to determine if at least one

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unwanted oscillation has been introduced by a threshold-correcting signal. Therefore, claim 3 and its dependents are not anticipated. The *Wheatley, III, et al.* reference also does not disclose examining the characteristics of a composite signal if a threshold-correcting signal is added to a peak as recited in claim 16 and then selectively adding the threshold-correcting signal depending on the results of that examination.

Additionally, Applicant respectfully submits that the multiplication technique disclosed in *Wheatley, III, et al.* is not the same as an addition or summing technique as used in Applicant's invention. Adding a threshold-correcting signal to a peak is not the same as multiplying an envelope value by a reduction function as disclosed in the *Wheatley, III, et al.* reference.

New claims 21-24 are supported by the specification, for example, on page 7, lines 13-27.

Applicant respectfully submits that this case is in condition for allowance. If the Examiner believes that a telephone conference will facilitate moving this case forward to being issued, Applicant's representative will be happy to discuss any issues regarding this application and can be contacted at the telephone number indicated below.

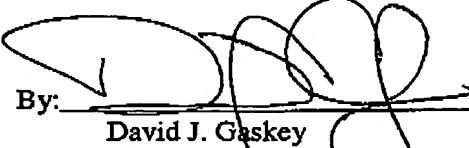
Applicant believes that additional fees are required for one claim in excess of twenty. The Commissioner is hereby authorized to charge Deposit Account No. 50-1482

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in the name of Carlson, Gaskey & Olds in the amount of \$50.00, as well as for any additional fees or to credit the account for any overpayment.

Respectfully submitted,

CARLSON, GASKEY & OLDS

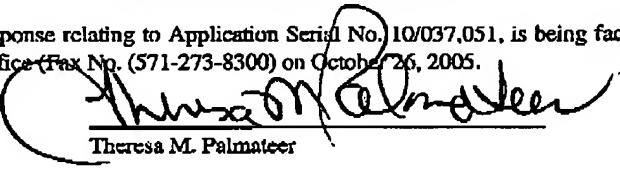
By: 

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Dated: October 26, 2005

**CERTIFICATE OF FACSIMILE**

I hereby certify that this Response relating to Application Serial No. 10/037,051, is being facsimile transmitted to the Patent and Trademark Office (Fax No. (571-273-8300) on October 26, 2005.

  
Theresa M. Palmateer

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